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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/690,648	10/23/2003	Takashi lizuka	P23969	9141	
7055	7590 04/06/2004		EXAMINER		
	JM & BERNSTEIN	PHAN, JAMES			
1950 ROLAN RESTON, V.	ID CLARKE PLACE A 20191		ART UNIT	PAPER NUMBER	
11201011,			2872	2872	

DATE MAILED: 04/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

A	K/
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	Application No.	Applicant(s)					
	10/690,648	IIZUKA, TAKASHI					
Office Action Summary	Examiner	Art Unit					
	James Phan	2872					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)☐ Responsive to communication(s) filed on  2a)☐ This action is <b>FINAL</b> . 2b)☒ This  3)☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro						
Disposition of Claims							
4) ⊠ Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,2,10 and 11 is/are rejected. 7) ⊠ Claim(s) 3-9 is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.						
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on 23 October 2003 is/are:  Applicant may not request that any objection to the office Replacement drawing sheet(s) including the correction of the option of the op	a) $\square$ accepted or b) $\square$ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)							
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:						

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Art Unit: 2872

#### **DETAILED ACTION**

#### Information Disclosure Statement

The information disclosure statement (IDS) submitted on 1/23/04 has been considered by the examiner.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 and 10-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Amada et al.

In re claims 1 and 10 Amada et al discloses a scanning optical system comprising: a first and a second light emitting devices (semiconductor laser arrays 51a, 51b) each of which has a linear array of light emitting points; a collimator lens system (52a, 52b); a first optical system (cylindrical lens 53) for forming line images on the reflecting surface (54a) of a deflector (54); and a second optical system (55) for forming/focusing deflected light beams into beam spots onto a target surface (56a) to be scanned (see Figs. 15A-15B). The linear array of light emitting points of each light emitting device is arranged/aligned in parallel with an auxiliary/sub-scanning direction (Fig. 16A) such that the beam spots formed by the beams emitted by the first and second light emitting devices are alternatively arranged on the target surface in the auxiliary/sub-scanning direction (Fig. 16B).

In re claim 2 see Fig. 15A.

In re claim 11 the first and second light emitting devices are inherently shifted from each other by a shift amount of ½ of a pitch of adjacent light emitting points of each of the first and second light emitting devices in the auxiliary/sub-scanning direction (Fig. 15B) because the beam spots alternatively arranged on the target surface in the auxiliary/sub-scanning direction are at the middle between the adjacent light spots emitted by each of the first and second light emitting devices, i.e. beam spot b1 emitted by the second light emitting device (51b) is arranged at the middle or ½ interval of adjacent beam spots a1 and a2 emitted by the first light emitting device (51a), and beam spot a2 emitted by the first light emitting device (51a) is arranged at the middle or ½ interval of adjacent beam spots b1 and b2 emitted by the second light emitting device (51b) (Fig. 16B).

### Allowable Subject Matter

Claims 3-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: none of the cited prior art teaches or fairly suggests the claimed invention having the structure specified in each of the claims 3-9.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Phan whose telephone number is (571) 272-2317. The examiner can normally be reached on Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phan, J. April 1, 2004

> James Phan Primary Examiner